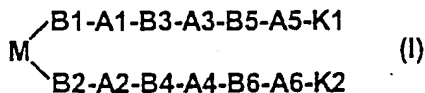


APPENDIX A

(Original)

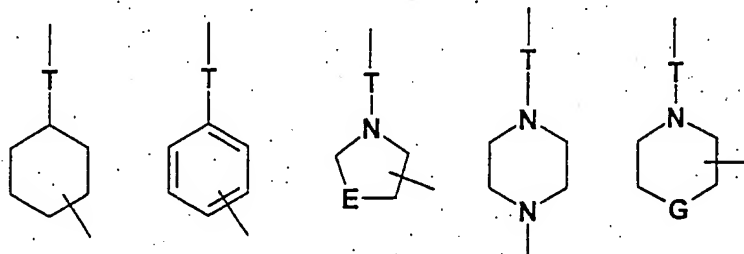
1. Compounds of formula I



in which

A1 and A2 are identical or different and are -C(O)-, -NH-, -O- (oxygen), -S- (sulfur), -S(O)₂-, -S(O)₂-NH-, -NH-S(O)₂-, -C(O)-NH-, -NH-C(O)-, -O-C(O)-, -C(O)-O- or a bond,

A3 and A4 are identical or different and are -C(O)-, -O-, -S-, -NH-, -O-C(O)-, -C(O)-O-, -C(O)-NH-, -NH-C(O)- or a bond, or are selected from the group consisting of



where

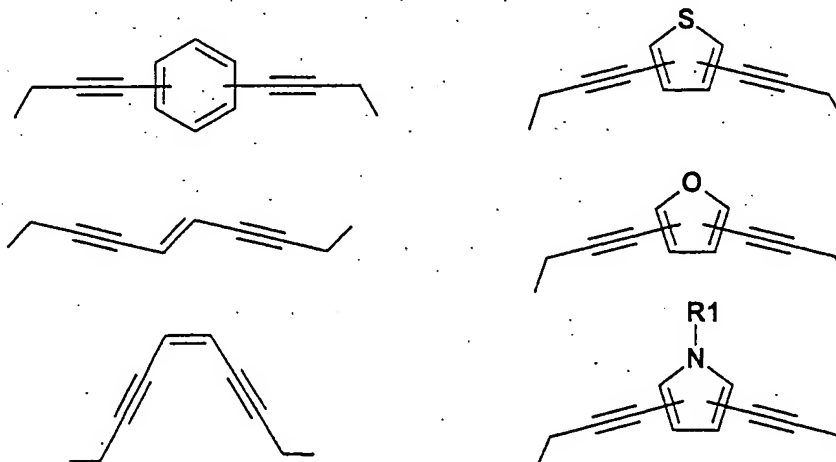
E is -O- (oxygen), -S- (sulfur) or -CH₂- (methylene),

G is -O- (oxygen) or -CH₂- (methylene), and

T is the group -C(O)- or a bond,

A5 and A6 are identical or different and are -C(O)-, -NH-, -O-, -S-, -C(O)-NH-, -NH-C(O)-, -O-C(O)-, -C(O)-O-, -NH-C(O)-NH- or a bond,

M is a central building block selected from the group below



where

R1 is hydrogen, 1-4C-alkyl or 1-4C-alkylcarbonyl,

K1 is -B7-(C(O))_m-B9-X1, -B7-(C(O))_m-B9-Y1 or -B7-(C(O))_m-B9-Z1-B11-X1,

K2 is -B8-(C(O))_p-B10-X2, -B8-(C(O))_p-B10-Y2 or -B8-(C(O))_p-B10-Z2-B12-X2,

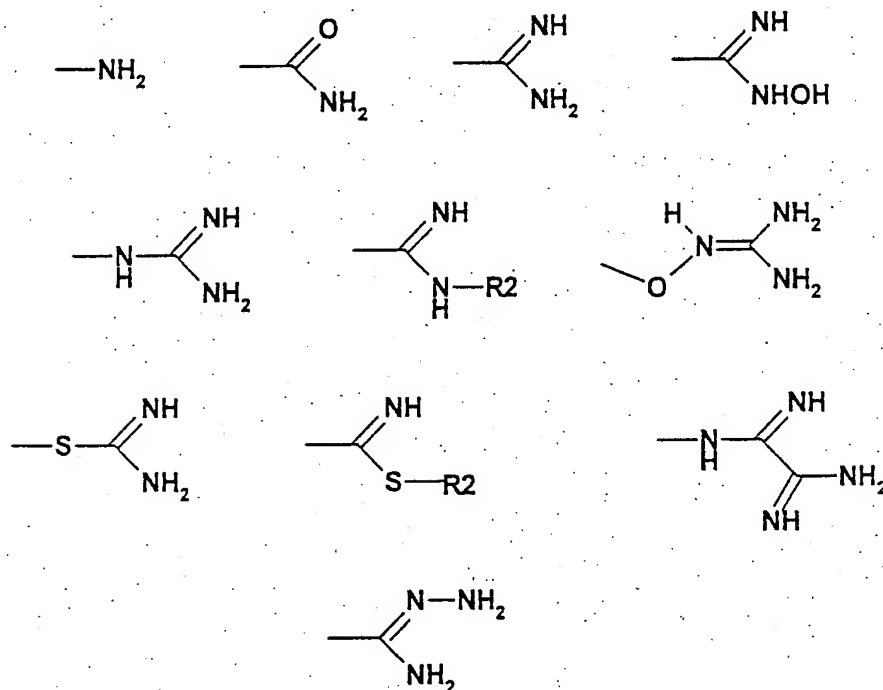
B1, B2, B3, B4, B5 and B6 are identical or different and are a bond or 1-4C-alkylene,

B7, B8, B9, B10, B11 and B12 are identical or different and are a bond or 1-4C-alkylene,

m is 0 or 1,

p is 0 or 1,

X1 and X2 are identical or different and are selected from the group consisting of



where

R2 is 1-4C-alkyl,

Y1 and Y2 are identical or different and are a 4-11C-heteroaryl or 2-7C-heterocycloalkyl radical containing at least one ring nitrogen,

Z1 and Z2 are identical or different and are 5-12C-arylene, 5-12C-heteroarylene, 3-8C-cycloalkylene or 3-8C-heterocycloalkylene,

where each arylen, heteroarylene, cycloalkylene, heterocycloalkylene, heteroaryl or heterocycloalkyl may additionally for its part be substituted by one, two or three substituents selected from the group consisting of hydroxyl, halogen, nitro, cyano, amino, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, 1-4C-alkylcarbonyloxy, carboxyl or aminocarbonyl,

and where on the direct route between the terminal nitrogen atoms 20 to 40 bonds have to be present, the salts of these compounds, and the N-oxides of the nitrogen-containing heteroaryls, heterocycloalkyls, heteroarylenes and heterocycloalkylenes, and their salts, where all those compounds are excluded in which one or more of the variables B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11 or B12 may assume the meaning of a bond resulting in the direct linkage of two heteroatoms or two carbonyl groups.

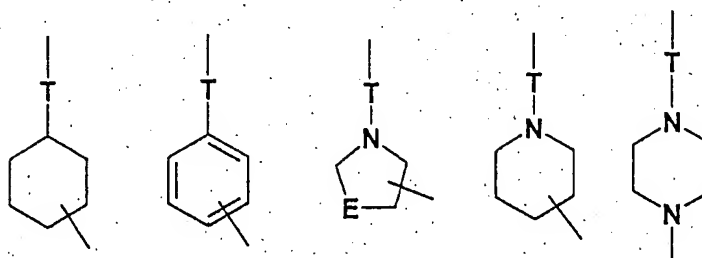
(Original)

2. Compounds of formula I according to claim 1 in which

A1 and A2 are identical or different and are -C(O)-, -NH-, -O-, -C(O)-NH-, -NH-C(O)-, -O-C(O)-, -C(O)-O- or a bond,

A3 and A4 are identical or different and are -C(O)-, -O-, -NH-, -O-C(O)-, -C(O)-O-, -C(O)-NH-, -NH-C(O)- or a bond, or are selected from the group consisting of

A1



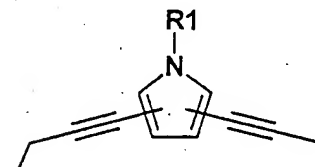
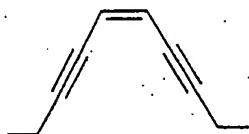
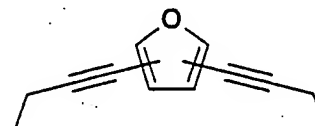
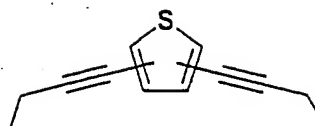
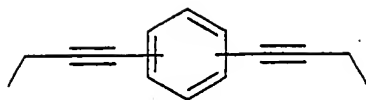
where

E is -O- (oxygen), -S- (sulfur) or -CH₂- (methylene) and

T is the group -C(O)- or a bond,

A5 and A6 are identical or different and are -C(O)-, -NH-, -O-, -C(O)-NH-, -NH-C(O)-, -O-C(O)-, -C(O)-O-, -NH-C(O)-NH- or a bond,

M is a central building block selected from the group below



A1

where

R1 is hydrogen, 1-4C-alkyl or 1-4C-alkylcarbonyl,

K1 is -B7-(C(O))_m-B9-X1, -B7-(C(O))_m-B9-Y1 or -B7-(C(O))_m-B9-Z1-B11-X1,

K2 is -B8-(C(O))_p-B10-X2, -B8-(C(O))_p-B10-Y2 or -B8-(C(O))_p-B10-Z2-B12-X2,

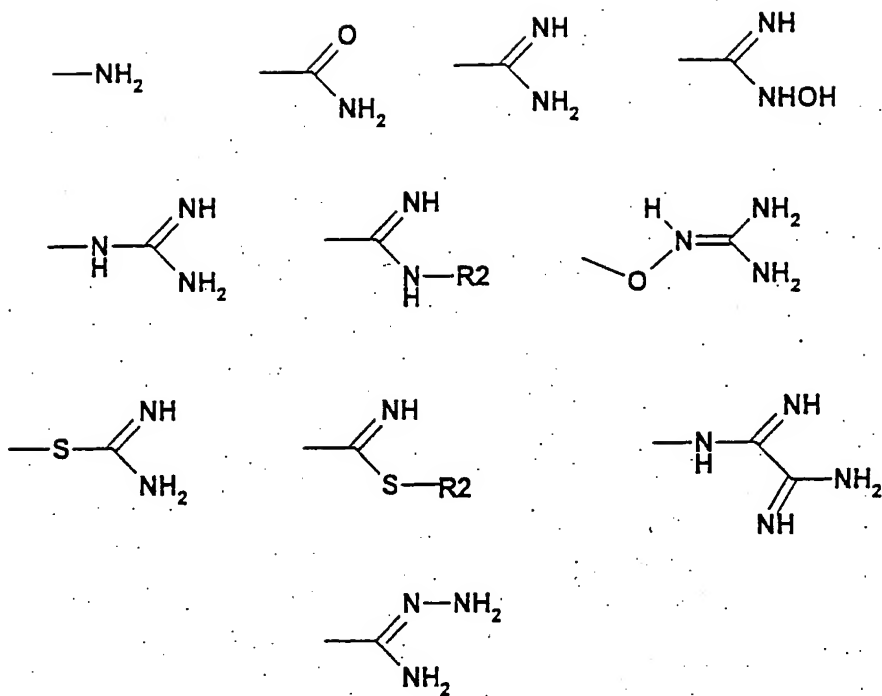
B1, B2, B3, B4, B5 and B6 are identical or different and are a bond or 1-4C-alkylene,

B7, B8, B9, B10, B11 and B12 are identical or different and are a bond or 1-4C-alkylene,

m is 0 or 1,

p is 0 or 1,

X1 and X2 are identical or different and are selected from the group consisting of



where

R₂ is 1-4C-alkyl,

Y₁ and Y₂ are identical or different and are piperid-4-yl, piperid-3-yl, piperazin-1-yl, piperazin-2-yl, morpholin-2-yl, pyrrolidin-2-yl, pyrrolidin-3-yl, imidazolidin-1-yl, imidazolidin-2-yl, imidazolidin-4-yl, 2-imidazolin-3-yl, 2-imidazolin-2-yl, imidazol-1-yl, imidazol-2-yl, imidazol-4-yl, pyrid-4-yl, pyrid-3-yl, pyridazin-4-yl, pyrimidin-5-yl, pyrimidin-4-yl, indol-3-yl, benzimidazol-4-yl or benzimidazol-5-yl,

Z₁ and Z₂ are identical or different and are 1,4-phenylene, 1,3-phenylene, 1,4-naphthylene, 2,6-naphthylene, 1,4-cyclohexylene, 1,3-cyclohexylene, 1,3-cyclopentylene, 1,4-piperazinylene, 4,1-piperidinylene, 1,4-piperidinylene, 2,5-pyrrolidinylene, 4,2-imidazolidinylene, 2,5-furylene, 2,5-pyrrolylene, 4,2-pyridylene, 5,2-pyridylene, 2,5-indolylene, 2,6-indolylene, 3,5-indolylene, 3,6-indolylene, 3,5-indazolylene, 3,6-indazolylene, 2,6-quinolinylene, 2,5-benzofuranylene or 4,2-thiazolylene,

where each arylene, heteroarylene, cycloalkylene, heterocycloalkylene, heteroaryl or heterocycloalkyl may additionally for its part be substituted by one, two or three substituents selected from the group consisting of hydroxyl, halogen, nitro, cyano, amino, 1-4C-alkyl, 1-4C-alkoxy, 1-4C-alkoxycarbonyl, 1-4C-alkylcarbonyloxy, carboxyl or aminocarbonyl,

and where on the direct route between the terminal nitrogen atoms 20 to 40 bonds have to be present, the salts of these compounds, and the N-oxides of the nitrogen-containing heteroaryls, heterocycloalkyls, heteroarylenes and heterocycloalkylenes, and their salts, where all those compounds are excluded in which one or more of the variables B₁, B₂, B₃, B₄, B₅, B₆, B₇, B₈, B₉, B₁₀, B₁₁ or B₁₂

may assume the meaning of a bond, resulting in the direct linkage of two heteroatoms or carbonyl groups.

(Original)

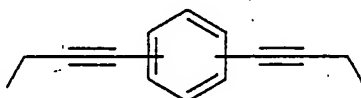
3. Compounds of formula I according to claim 1 in which

A1 and A2 are identical or different and are -O-, -C(O)-, -O-C(O)-, -NH-C(O)- or a bond,

A3 and A4 are identical or different and are 1,4-piperazinylene, 1,4-piperidinylene, 1,4-cyclohexylene, 1,3-phenylene or a bond,

A5 and A6 are identical or different and are -C(O)-, -C(O)-NH-, -NH-C(O)- or -NH-C(O)-NH-,

M is a central building block selected from the group below



K1 is -B7-(C(O))_m-B9-Y1 or -B7-(C(O))_m-B9-Z1-B11-X1,

K2 is -B8-(C(O))_p-B10-Y2 or -B8-(C(O))_p-B10-Z2-B12-X2,

B1 and B2 are identical or different and are a bond or methylene,

B3, B4, B5 and B6 are identical or different and are a bond or 1-3C-alkylene,

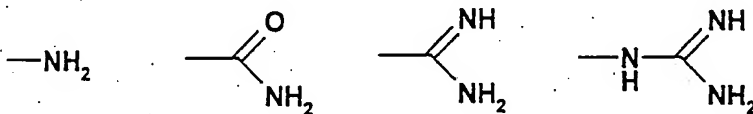
B7, B8, B9 and B10 are identical or different and are a bond or 1-4C-alkylene,

B11 and B12 are identical or different and are a bond or methylene,

m is 0,

p is 0,

X1 and X2 are identical or different and are selected from the groups below



Y1 and Y2 are imidazol-1-yl,

Z1 and Z2 are identical or different and are 5,2-pyridinylene, 6-methyl-5,2-pyridinylene, 4,1-piperidinylene, 3,6-indazolylene, 3,6-indolylene, 1,3-phenylene, 1,4-phenylene, 1,3-cyclohexylene or 1,4-cyclohexylene,

and where on the direct route between the terminal nitrogen atoms 20 to 40 bonds have to be present, the salts of these compounds, and also the N-oxides of the nitrogen-containing heteroaryls, heteroarylenes and heterocycloalkylenes, and their salts, where all those compounds are excluded in which one or more of the variables B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11 or B12 may assume the meaning of a bond, resulting in the direct linkage of two heteroatoms or carbonyl groups.

(Original)

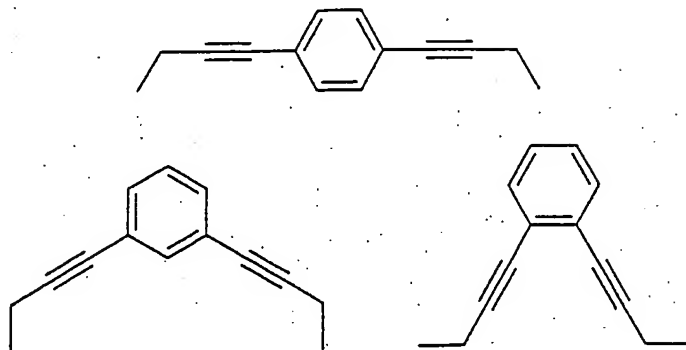
4. Compounds of formula I according to claim 1 in which

A1 and A2 are -O-C(O)-,

A3 and A4 are 1,4-piperazinylene,

A5 and A6 are identical or different and are -C(O)- or -C(O)-NH-,

M is a central building block selected from the groups below



K1 is -B7-(C(O))_m-B9-Z1-B11-X1,

K2 is -B8-(C(O))_p-B10-Z2-B12-X2,

B1, B2, B3, B4, B5 and B6 are a bond,

B7 and B8 are identical or different and are a bond or methylene,

B9 and B10 are a bond,

B11 and B12 are methylene,

m is 0,

p is 0,

X1 and X2 are amino,

Z1 and Z2 are identical or different and are 1,4-phenylene or 1,4-cyclohexylene,
and the salts of these compounds.

5. Compounds of formula I according to claim 1 with the chemical name

(Original)

1,2-bis[4-(trans-4-aminomethylcyclohexylcarbonyl)-1-piperazinylcarbonyl-1-oxyprop-2-ynyl]benzene;

1,4-bis[4-(trans-4-aminomethylcyclohexylcarbonyl)-1-piperazinylcarbonyl-1-oxyprop-2-ynyl]benzene;

1,2-bis[4-(4-aminomethylbenzylaminocarbonyl)-1-piperazinylcarbonyl-1-oxyprop-2-ynyl]benzene;

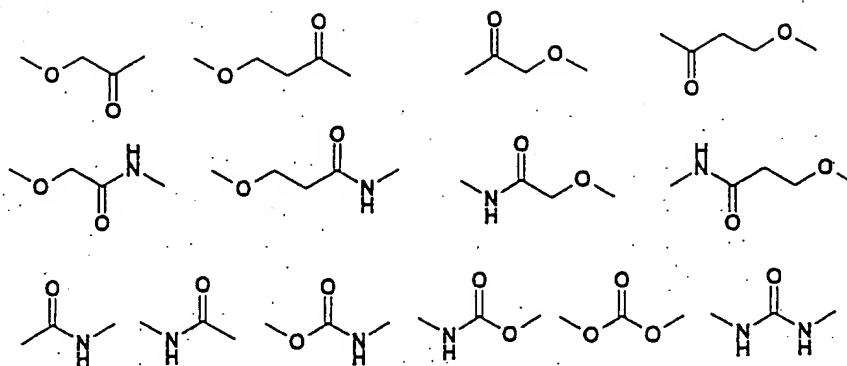
1,3-bis[4-(4-aminomethylbenzylaminocarbonyl)-1-piperazinylcarbonyl-1-oxyprop-2-ynyl]benzene;

and the salts of these compounds.

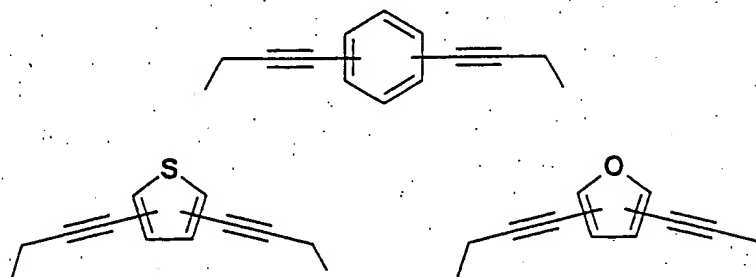
(Original)

6. Compounds of formula I according to claim 1 in which

-B1-A1-B3-A3-B5-A5- and -B2-A2-B4-A4-B6-A6- are identical or different and are selected from the
groups below



M is a central building block selected from the groups below



K1 is -B7-(C(O))_m-B9-Y1 or -B7-(C(O))_m-B9-Z1-B11-X1,

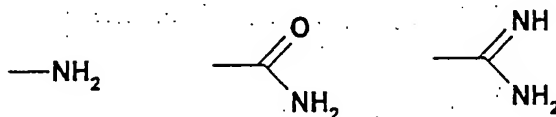
K2 is -B8-(C(O))_p-B10-Y2 or -B8-(C(O))_p-B10-Z2-B12-X2,

B7, B8, B9, B10, B11 and B12 are identical or different and are a bond or 1-2C-alkylene,

m is 0,

p is 0,

X1 and X2 are identical or different and are selected from the groups below



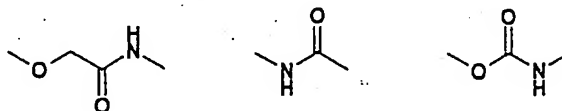
Y1 and Y2 imidazol-1-yl,

Z1 and Z2 are identical or different and are 5,2-pyridinylene, 6-methyl-5,2-pyridinylene, 4,1-piperidinylene, 3,6-indazolylene, 3,6-indolylene, 1,3-phenylene, 1,4-phenylene, 1,3-cyclohexylene or 1,4-cyclohexylene,

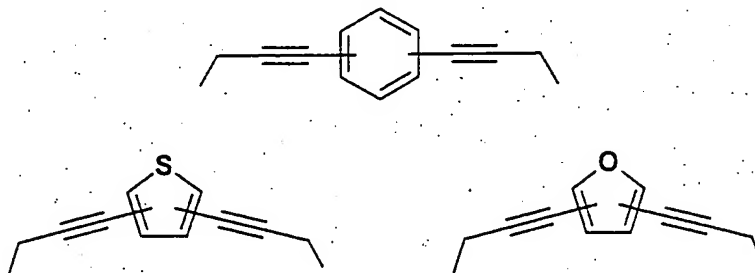
and where on the direct route between the terminal nitrogen atoms 20 to 33 bonds have to be present, the salts of these compounds, and also the N-oxides of the nitrogen-containing heteroaryls, heteroarylenes and heterocycloalkylenes, and their salts.

(Original)

- 7) Compounds of formula I according to claim 1 in which
-B1-A1-B3-A3-B5-A5- and -B2-A2-B4-A4-B6-A6- are identical or different and are selected from



M is a central building block selected from the group below



K1 is -B7-(C(O))_m-B9-Z1-B11-X1,

K2 is -B8-(C(O))_p-B10-Z2-B12-X2,

B7 and B8 are identical or different and are a bond or methylene,

B9 and B10 are a bond,

B11 and B12 are methylene,

m is 0,

p is 0,

X1 and X2 are amino,

Z1 and Z2 are identical or different and are 1,4-phenylene or 1,3-phenylene,
and the salts of these compounds.

(Original)

8. Compounds of formula I according to claim 1 with the chemical name

1,3-Bis-(4-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-benzene;

1,2-Bis-(4-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-benzene;

3,4-Bis-(4-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-thiophene;

2,5-Bis-(4-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-furan;

2,5-Bis-(3-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-furan;

3,4-Bis-(3-aminomethylbenzylaminocarbonyl-1-oxyprop-2-ynyl)-thiophene;

1,4-Bis-(4-aminomethylbenzylaminocarbonylmethyl-1-oxyprop-2-ynyl)-benzene;

1,3-Bis-(4-aminomethylbenzylaminocarbonylmethyl-1-oxyprop-2-ynyl)-benzene;

1,4-Bis-(4-aminomethylbenzylcarbonyl-1-aminoprop-2-ynyl)-benzene;

1,2-Bis-(4-aminomethylbenzylcarbonyl-1-aminoprop-2-ynyl)-benzene;

1,4-Bis-(4-aminomethylphenylethylcarbonyl-1-aminoprop-2-ynyl)-benzene;

and the salts of these compounds.

(Currently amended) 9. A ~~medicament~~ pharmaceutical composition comprising one or more compounds of formula I according to claim 1 and a pharmaceutically acceptable salt. ~~together with the customary pharmaceutical auxiliaries and/or excipients.~~

A1
(Currently amended) 10. ~~Use of~~ A method of treating an airway disorder in a patient comprising administering to a patient in need thereof a therapeutically effective amount of one or more compounds of formula I according to claim 1 ~~for the production of medicaments for the treatment of airway disorders.~~